



## Kingbuilt HPC-1 Multi-Oil Burner

This patented waste oil burner preheats the oil hydronically, via the boiler water. It starts on electric heat that shuts off once the boiler is up to temperature. Automatic valves open allowing hot boiler water to preheat the waste oil. This soft preheating prevents any build-up in the oil lines with related maintenance.

# Kingbuilt HPC-1 Multi-Oil Burner

Energy efficient  
Low maintenance  
Patented Technology

The Kingbuilt burner was designed to burn most petroleum based or vegetable based oil in an energy efficient manner with low maintenance. Heating with water prevents “baking” the oil while maintaining a constant fuel temperature for complete combustion. This method virtually eliminates carbon and grit buildup inside the burner. That means: less maintenance, less down time, more reliability, with consistent dependable heat.

The KBB Waste Oil/Multi-Oil Burner can be paired with the Buderus Boiler in four convenient sizes: 150k, 250, 350 and 500,000 BTU/H. The boiler packages include the HPC-1 Burner, the boiler, a metered oil pump, a hydronic oil heat system, and a modification kit for the boiler. You will appreciate the 85% energy efficiency, the installation DVD and instructions that allow end-users to do much of the work, and ongoing support is provided by INOV8 International which has 25 years of experience using waste oil in Buderus boilers.



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# HEATING solutions that work for your business & home.

EFFICIENT, RELIABLE, FLEXIBLE HEATING SOLUTIONS

## flexible solutions for your business needs

### APPLICATION MANAGEMENT

The "Kingbuilt Boiler" is the power plant of the hydronic heating system. Heat energy produced by the Kingbuilt designed HPC-1 Combustion System is transferred to water through the boiler's heat exchanger. The heated water is circulated through the various heat exchangers to transfer the heat energy to your building. The water inside the boiler, heated by the HPC-1, is circulated through the boiler and the "Primary Loop" by the "Primary Circulator" pump. A "Thermal Expansion Tank" absorbs water expansion from the heating of water to maintain a set operating water pressure. The "Air Eliminator" collects and automatically removes entrapped air from the system. The "Primary Circulator" continuously circulates the water through the boiler and primary loop. The "Secondary Loop Take Offs" is where the heat exchangers are plumbed to the primary loop. There are several methods of distributing the hot water:

1. A "Fan Coil" or "Water Furnace" has a water coil and squirrel cage type blower mounted inside a sheet metal enclosure. The blower pushes air across the water coil pulling heat energy out of the water circulating through it and heats the air.
2. The heated water can be circulated through "In Floor Radiant Heating" tubing for building heating. This is the most comfortable way to heat a building.
3. Heating domestic and process water is also possible using the heated water by using a "Hydronic Water Heater". These are often called "Indirect Fired Water Heaters".
4. Other various liquid to liquid heat exchangers can be used for heating pools, hot tubes and liquid processes such as biodiesel processors. The most common are "stainless steel brazed plate" and "shell and tube" heat exchangers.

### CONTACT US:

CALL: 877-684-6688

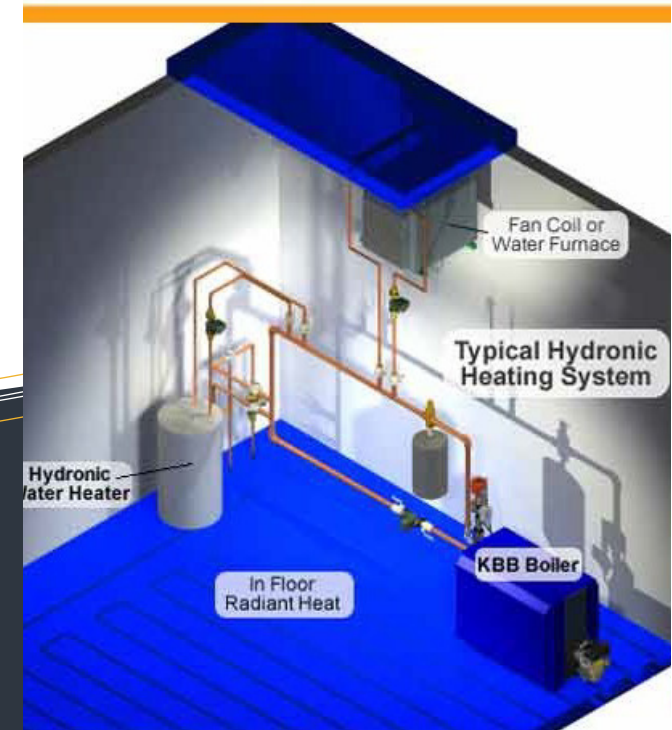
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### SMART SOLUTIONS

Kingbuilt Boilers provide a wonderful way to heat your buildings using nearly every form of oil under the sun. The versatility and longevity of the KBB boiler and hydronic heating make it clearly the best option. Yes, there are many cheap waste oil furnaces on the market that will cost you less up front. But when you factor in the longevity of the KBB Boiler, your long term investment is substantially less when you consider how many furnaces you will go through at a 3-5 year lifespan.



### HOW CAN WE HELP YOU?

For 25 years INOV8 has been designing energy solutions with a variety of heating systems utilizing available waste oil.